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The open source eco-system

#SomeFood4Thought

Empower everyone with open
source geospatial

FOSS4G Belgium – Brussels
Dirk Fridge – 25 Oktober 2018
President OSGeo Europe

Welcome on the 4th FOSS4G Belgium Conference!

Some words of thanks ...

- All the volunteers
- The translators
- The FOSS4G team
- The presenters
- The sponsors





The open source
eco-system



Setting the scene: what is an eco-system

Definition 1: (<https://en.wikipedia.org/wiki/Ecosystem>)

An ecosystem is a large community of living organisms (plants, animals and microbes) in a particular area. The living and physical components are linked together through nutrient cycles and energy flows. Ecosystems can be of any size, but usually they are in particular places.

Each ecosystem has its own community. An aquarium community, for example, can have small fishes and other organisms. A desert community may have cacti, small snakes, and scorpions. A pond community can have frogs, insects, snakes, and plants, and a forest community may have rabbits, foxes and pine trees. The species in a community are divided into populations according to the particular habitats and ecological niches in the ecosystem



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Setting the scene: what is an eco-system

Definition 2: (<https://www.dictionary.com/browse/ecosystem>)

[ek-oh-sis-tuh m, ee-koh-]

1. a system, or a group of interconnected elements, formed by the interaction of a community of organisms with their environment.
2. any system or network of interconnecting and interacting parts, as in a business: The success of Apple's ecosystem depends on hardware/software integration. Manufacturers, retailers, and customers are all part of the automotive industry's ecosystem.



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Bad (?) example of an eco-system

Interesting Video: The apple Ecosystem Explained!

(https://www.youtube.com/watch?v=KB4_WIPE7vo)

- If you stick with one vendor: everything works smoothly
- Only interoperability between peers of the same family
- Stockholm Syndrome



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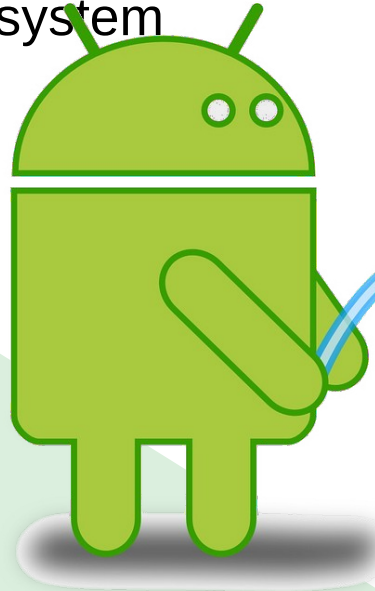


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- If you stick with one vendor: everything works smoothly
- Only interoperability between peers of the same family
- Stockholm Syndrome
- One solution
- One communication protocol
- No diversity
- monoculture



Massimo Barbieri
Android vs. iOS
CC BY-SA 2.0



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Setting the scene: what is an eco-system

Definition 3: (<https://sciencing.com/10-examples-natural-ecosystem-7836.html>)

An ecosystem is comprised of all the non-living elements and living species in a specific local environment. Components of most ecosystems include water, air, sunlight, soil, plants, microorganisms, insects and animals. ... Sizes of ecosystems vary; they could entail a small puddle or an enormous swath of desert. (Mar 13, 2018)

- **Habitat** (where organisms live)
- **Living** and **non living** things
- Need **energy**





The open source
eco-system



OSGeo 12 Years old

Think global act local:

- World wide active
- Local representation
- OSGeo Belgium 3 Years
- OSGeo Europe 1 Year



What is OSGeo / What binds us together

- Remembering how we started?
 - It was about software development
 - Tribes of developers finding each-other
 - Start to share idea's, know how and events
 - (FOSS4G was born)



May The FOSS Be With You



What is OSGeo / What binds us together

- The rest is history
 - Start Local chapters to help with ‘language’ barriers
 - Start committees and share experience
 - Start with FOSS4G conferences
 - first Global, today Regional and Local Foss4G conferences
 - A lot of fun, a lot of energy,
 - Code sprints with a lot of (free?) beer and pizza
 - The opportunity to take local initiatives
 - The community grew

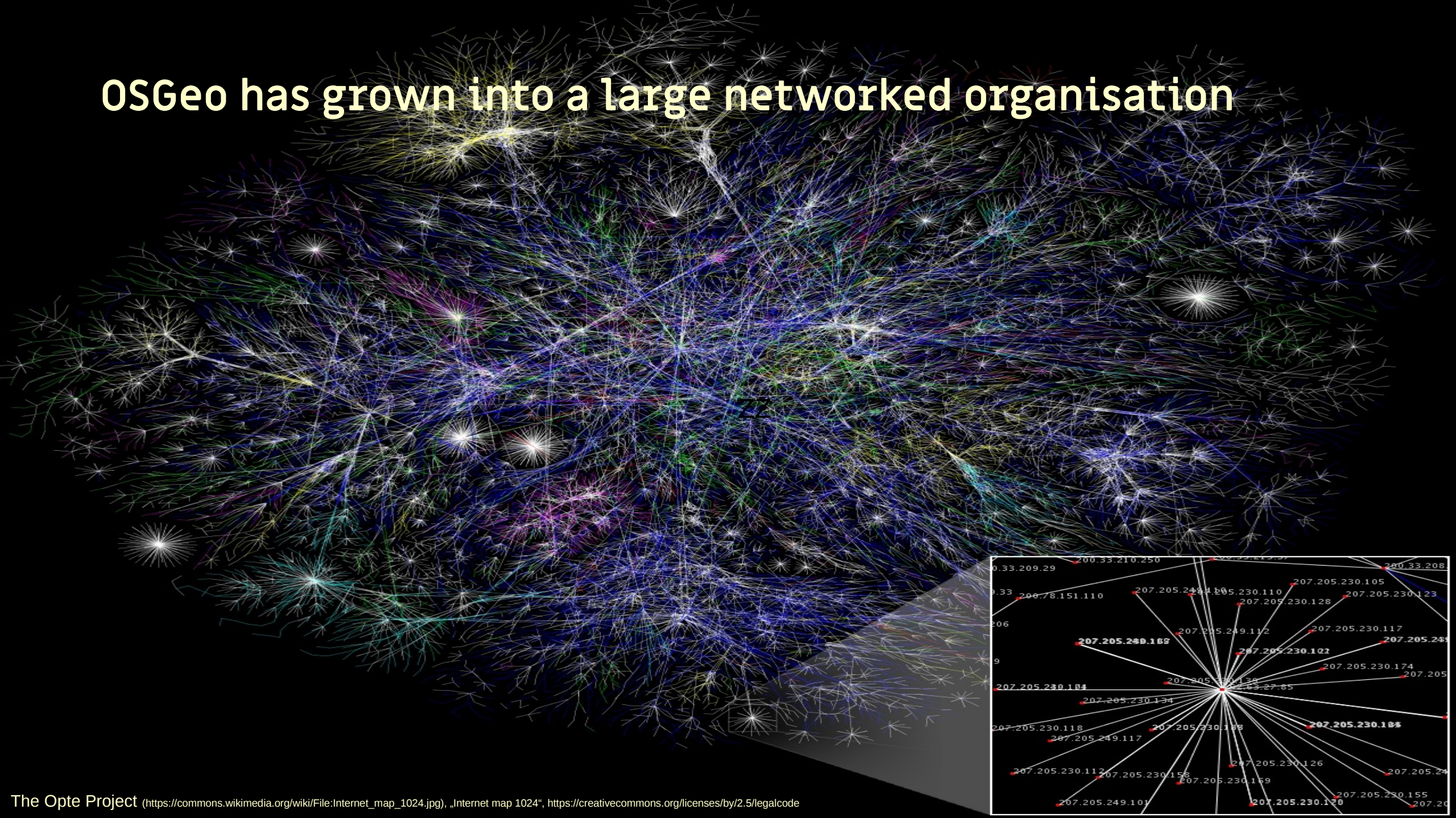


Aim of the last FOSS4G – Europe conference:

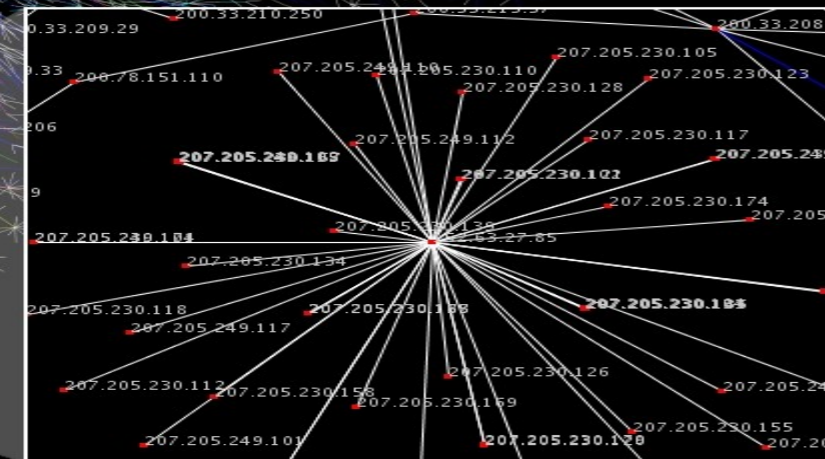
- The Conference aims to bring together the European FOSS4G community. It is not an academic neither a business event. It is a community event, to support face to face meetings and discussions, to foster interactions, to share knowledge and passion.
- It's all about the community
- Think global act local



OSGeo has grown into a large networked organisation



The Opte Project (https://commons.wikimedia.org/wiki/File:Internet_map_1024.jpg), „Internet map 1024“, <https://creativecommons.org/licenses/by/2.5/legalcode>



...

OSGeo has grown into a large networked organisation

- Every year a big Conference world wide (NA, EU, Rest of world)
- More than 50 local chapters (almost every three months a new one ...)
- Local Chapters on 'political level' (OSGeo Europe, OSGeo NA, more to come)
- Active in OGC
- Active in VN
- Set up partnerships
- New challenges appear (code of conduct, what binds us together, ...)



What binds us together?

- Open Source Software for Geo and Location
 - From several perspectives
 - Some of us are developers
 - Some of us are users
 - Some of us are students
 - Some of us are professors
 - Some of us work for a NGO
 - Some of us work for Government
 - Some of us are self deployed
 - Some of us are business owners
 - ...



What binds us together?

- FOSS4G is fun and gives energy



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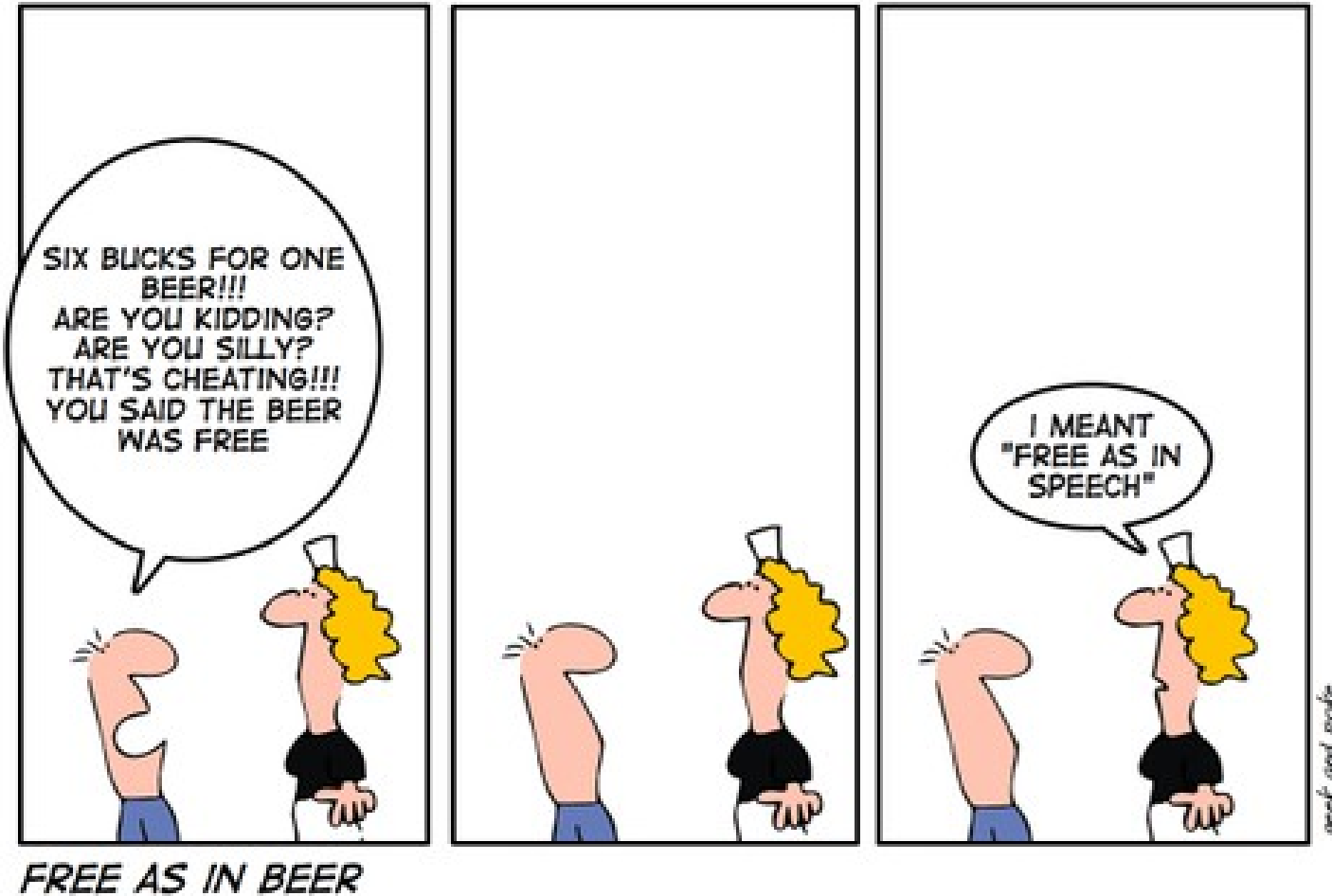


The open source eco-system

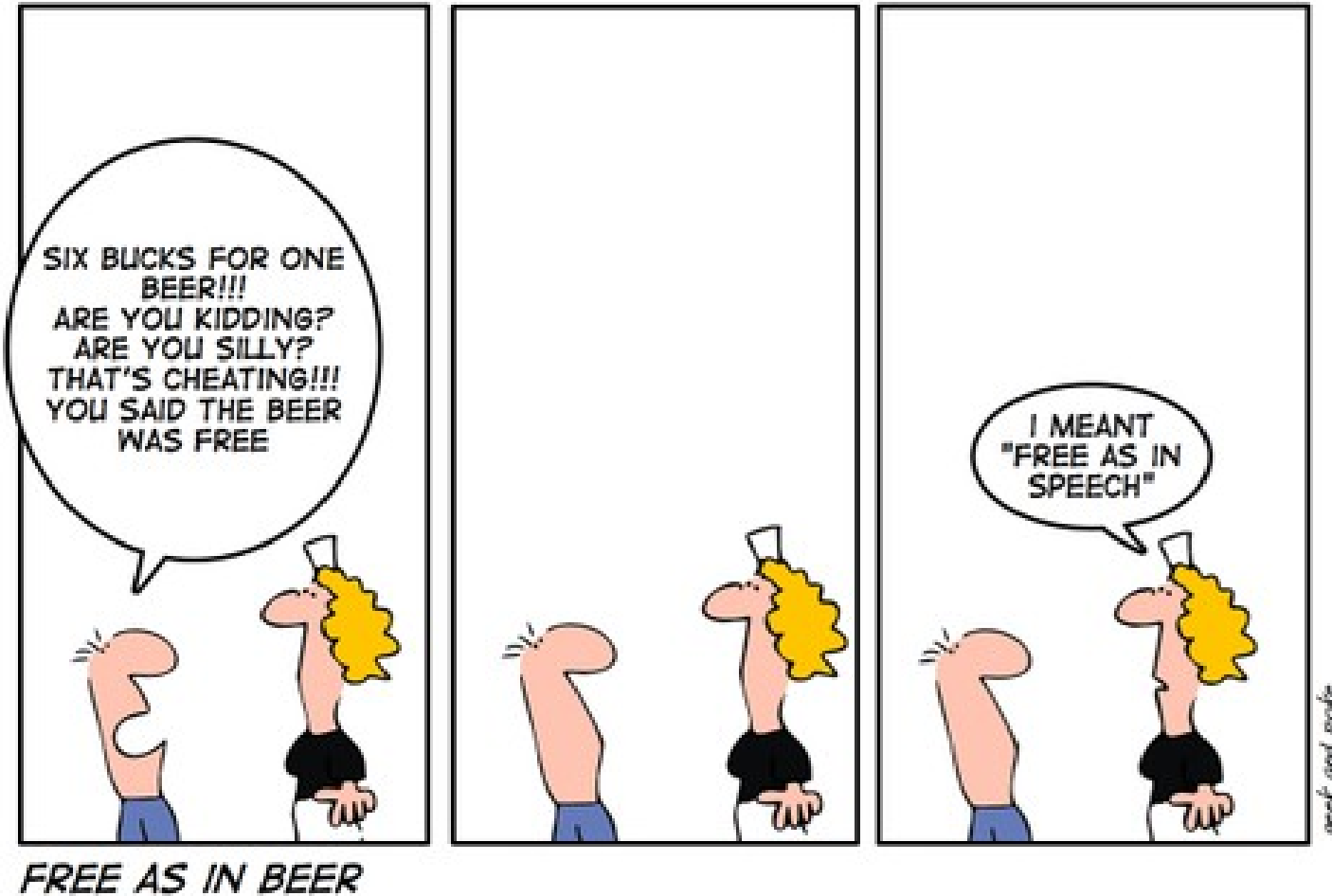
What is (Free and) Open Source Software?
(abbreviate: OSS or FOSS)



What is (Free and) Open Source Software?



What is (Free and) Open Source Software?



Open source software is free as in free speech, not as in free beer

Credits CC-BY-3.0: <http://geek-and-poke.com/geekandpoke/2008/1/17/free-as-in-beer.html>



What is (Free and) Open Source Software? [1]

- The freedom to run the program as you wish, for any purpose



What is (Free and) Open Source Software? [1]

- The freedom to run the program as you wish, for any purpose
- The freedom to study how the program works, and change it so it does your computing as you wish

(Access to the source code is a precondition for this.)



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- The freedom to redistribute copies so you can help your neighbour



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(Access to the source code is a precondition for this.)

- The freedom to redistribute copies so you can help your neighbour
- The freedom to distribute copies of your modified versions to others

(By doing this you can give the whole community a chance to benefit from your changes. Access to the source code is a precondition for this.)



And this is very important because
Software is eating the world



Empower everyone with open source geospatial

- OSGeo is a not-for-profit software foundation
 - Provides projects financial, organizational and legal support
- Outreach and advocacy
 - Promoting global adoption of open source geospatial technology
 - Partnerships on open approach to standards, data and education.
- OSGeo is a volunteer driven
 - Passionate membership of individuals from around the world.



Back to our topic: an Open Source eco-system

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- **Habitat** (where organisms live)
=> **the community**
- **Living** and **non living** things
=> **organisations, people, software, data, ...)**
- Need **energy**
=> **fun, money, respect, interaction, ...**



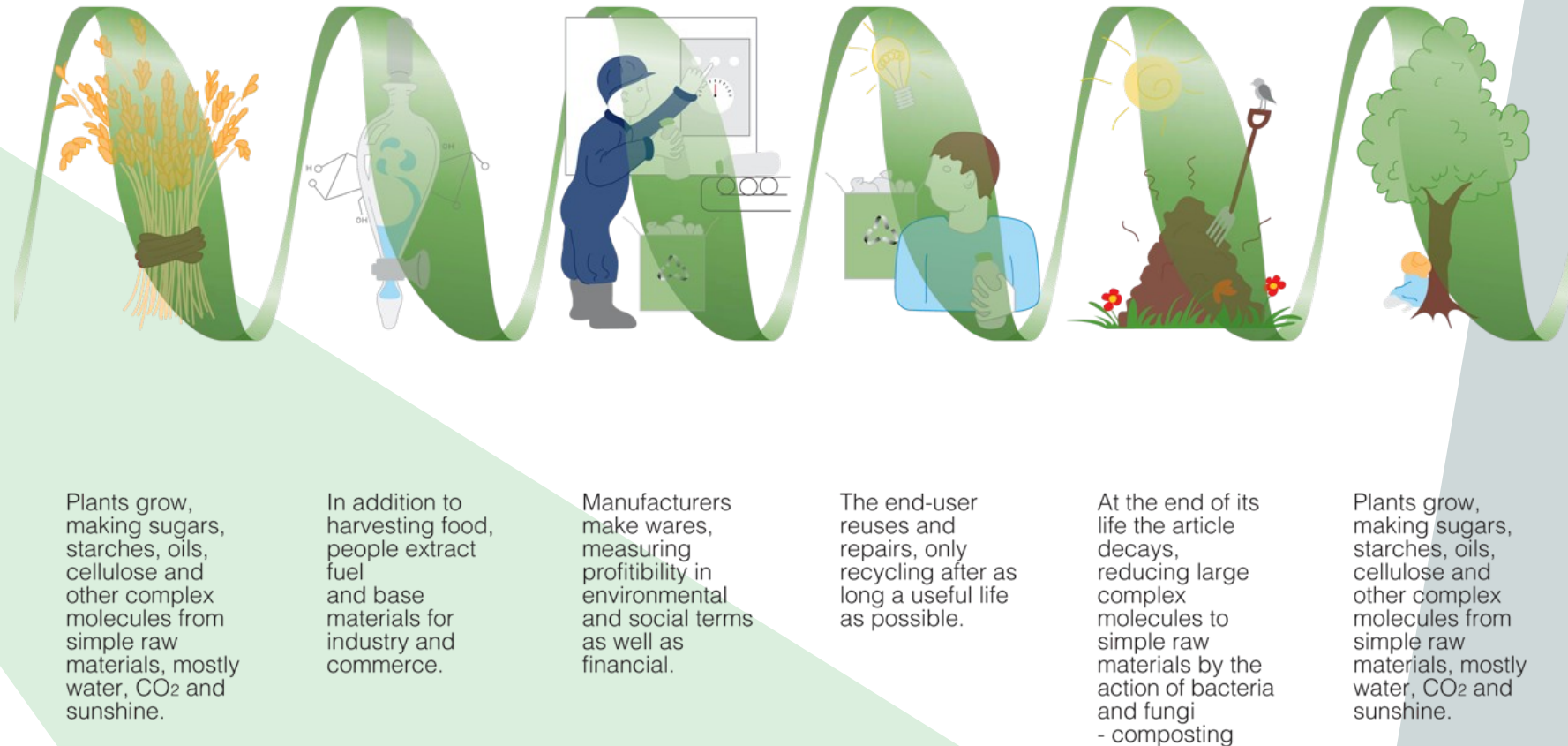
Setting the scene

- Sustainability
- Diversity
- Valuable
- 2beProtected
- Circular economy

but also:

- Collaboration
- Sharing
- Trustworthy
- Fun
- Innovative

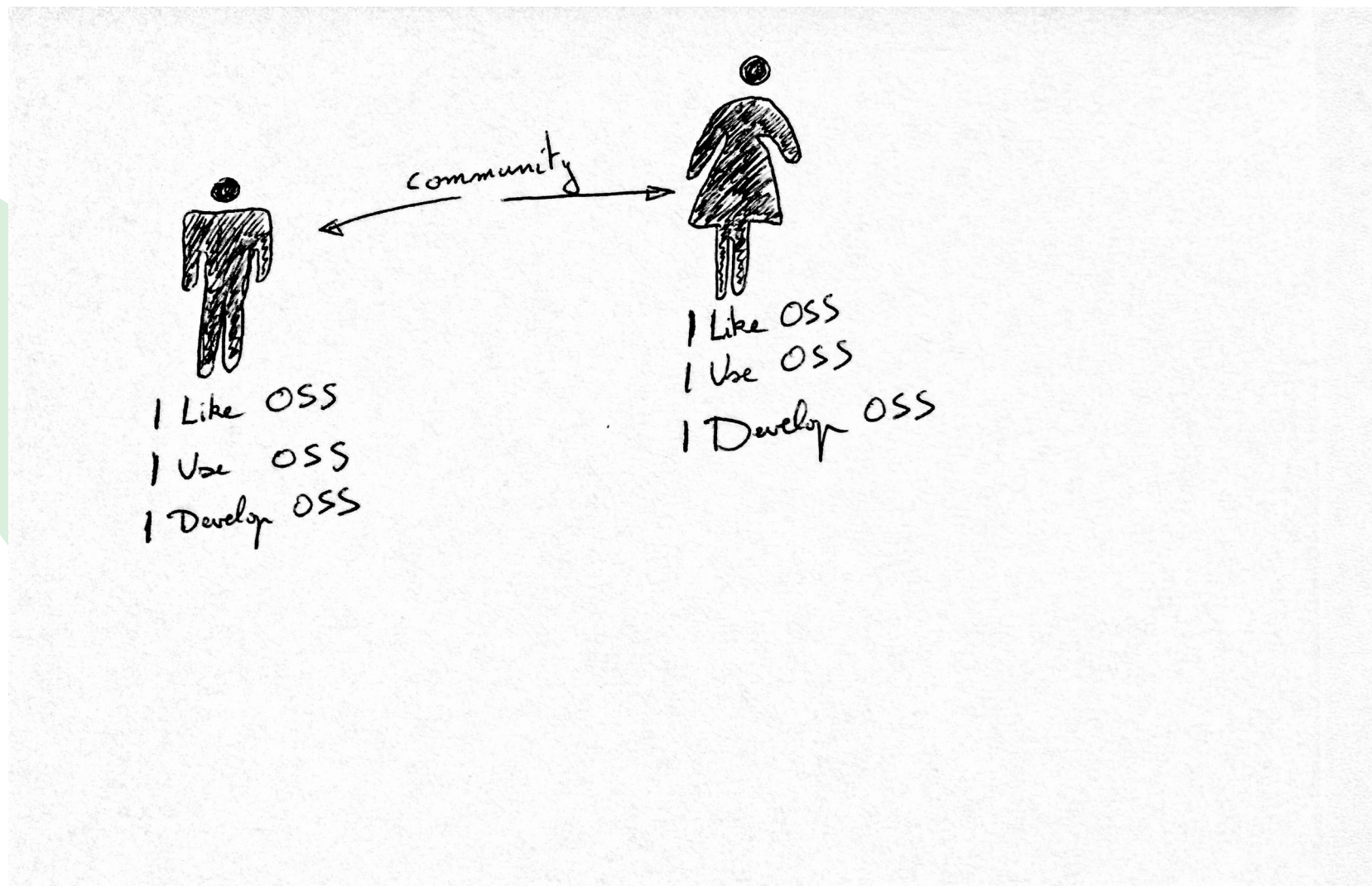
The Helix of Sustainability



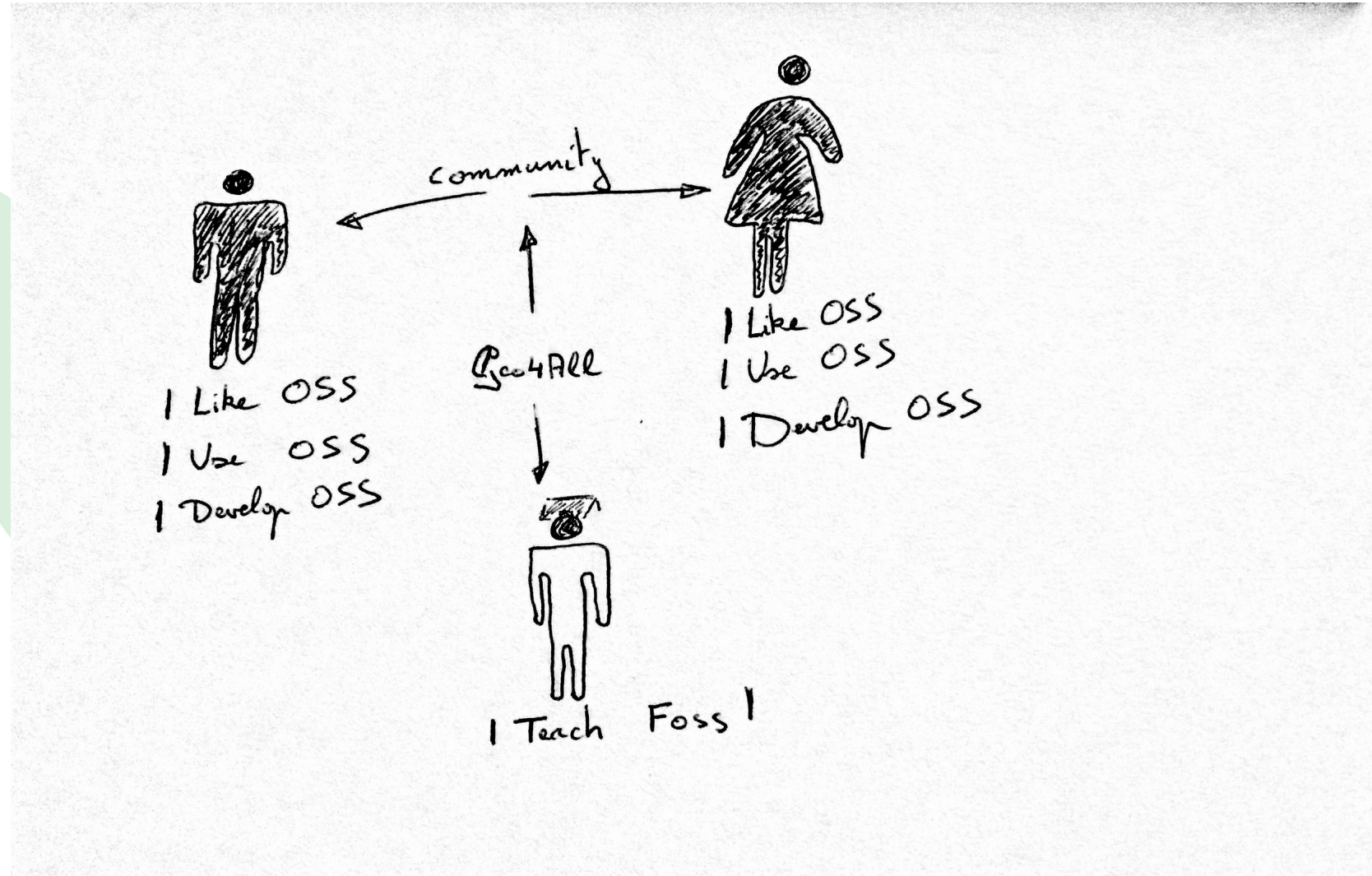
Great!! FOSS4G!!!



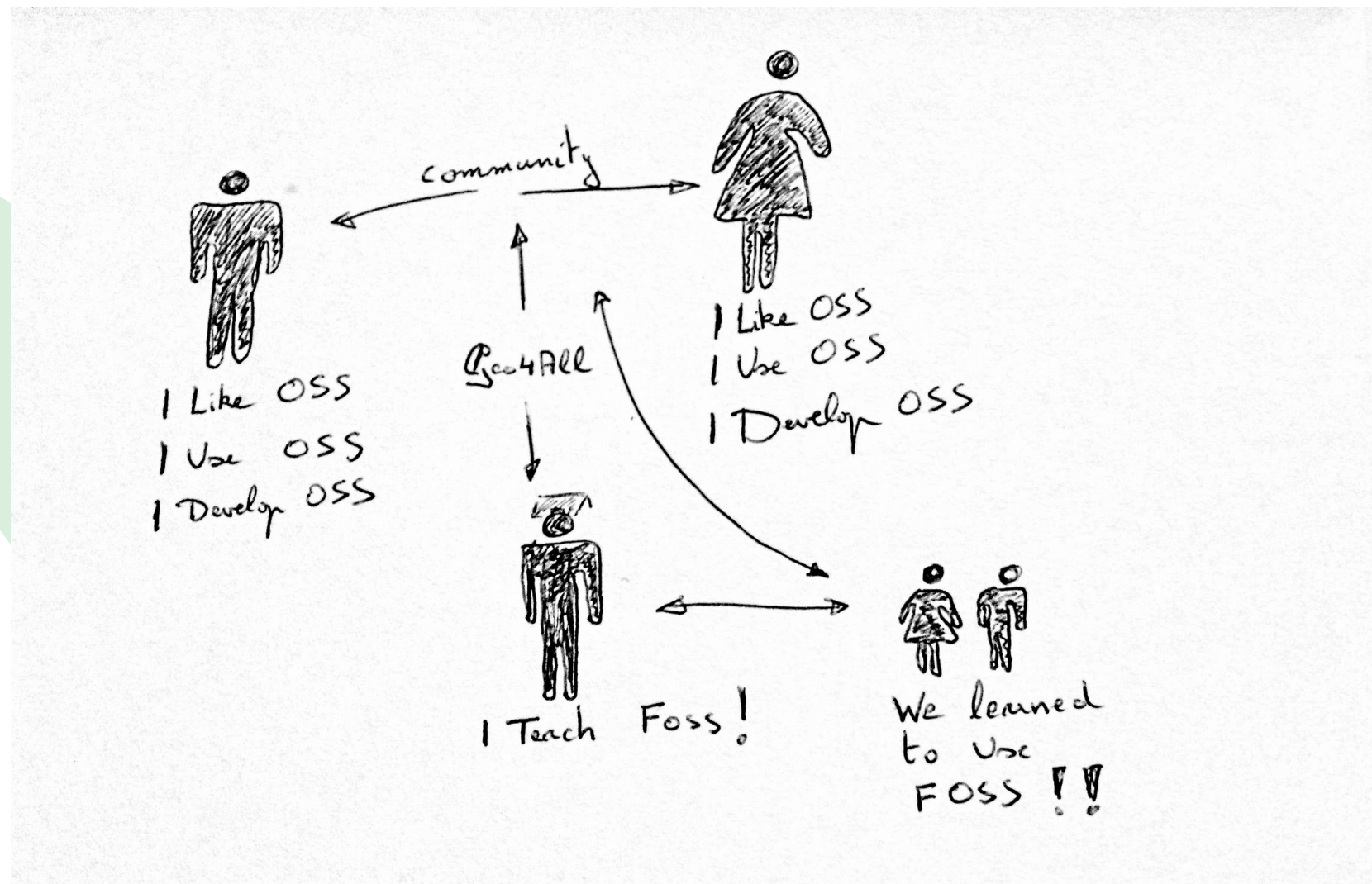
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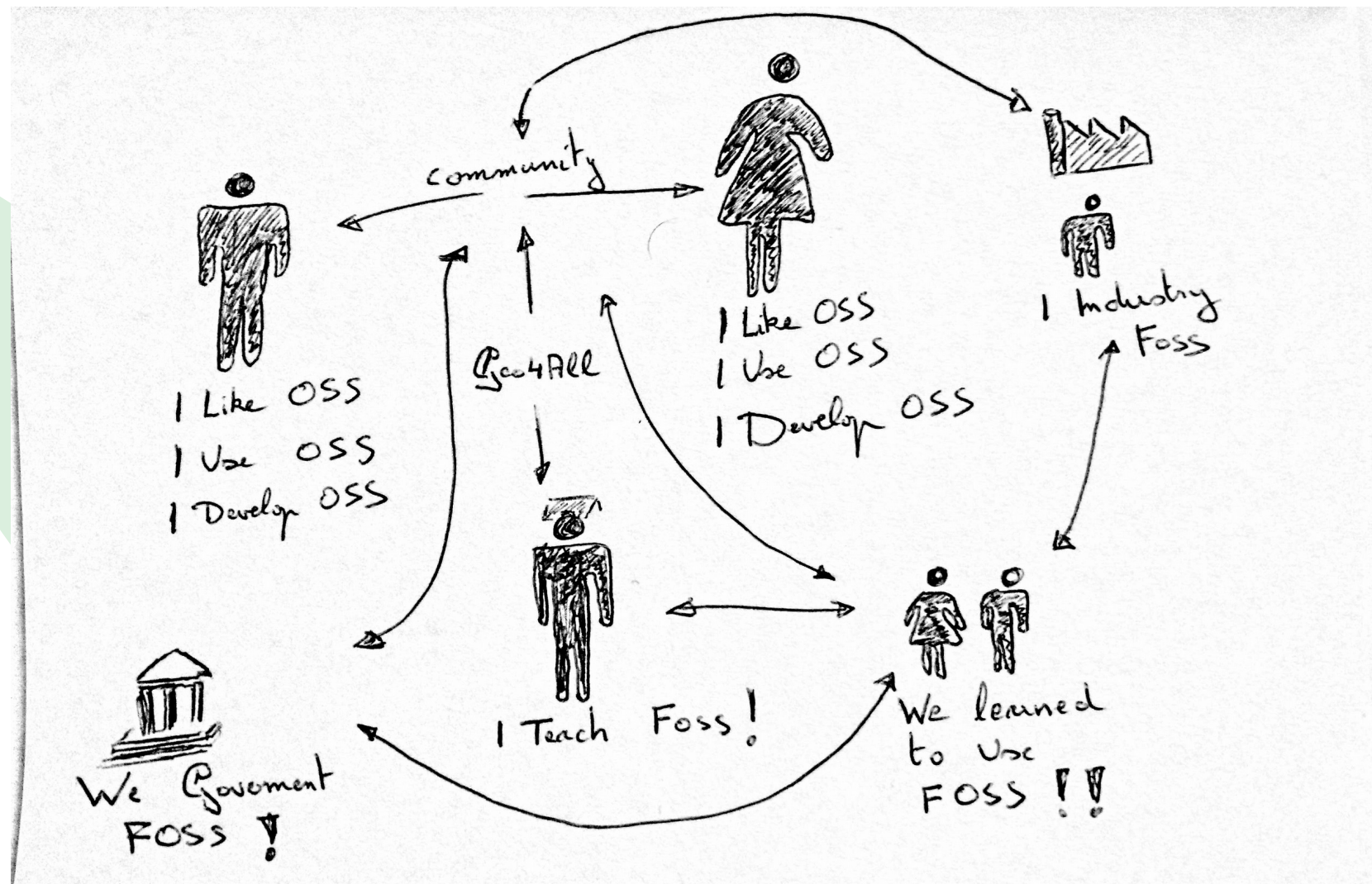
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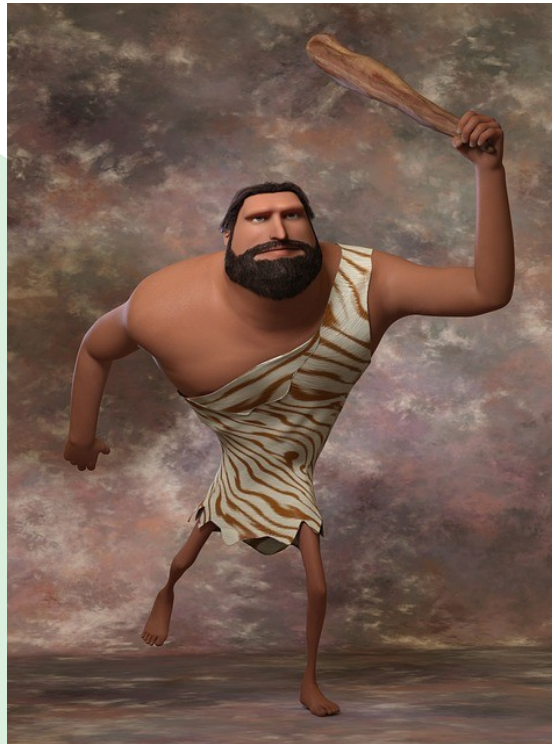


Obviously, only one of the many ...

- FOSS4G is great, but ...
- can't see the forest for the trees
 - How can we help with very simple problems
 - ex. available parking lots on a local website
 - which OSGeo software project to use for what function
 - What if we switch to open source
- How do we want to help (as a community)
 - In the original spirit where developers helped out, sharing information
 - If I put my time in it (because I need to solve it), you may as well use it
 - How can we scale this to the future
 - How can we support this



Why should I Bother?
What's in for me?



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Well, euh...

- We all want to move to a more transparent world
- Evolve to more collaboration
- We are convinced that (bio-) diversity is important
- We believe innovation will help sustainability

...



euh...??



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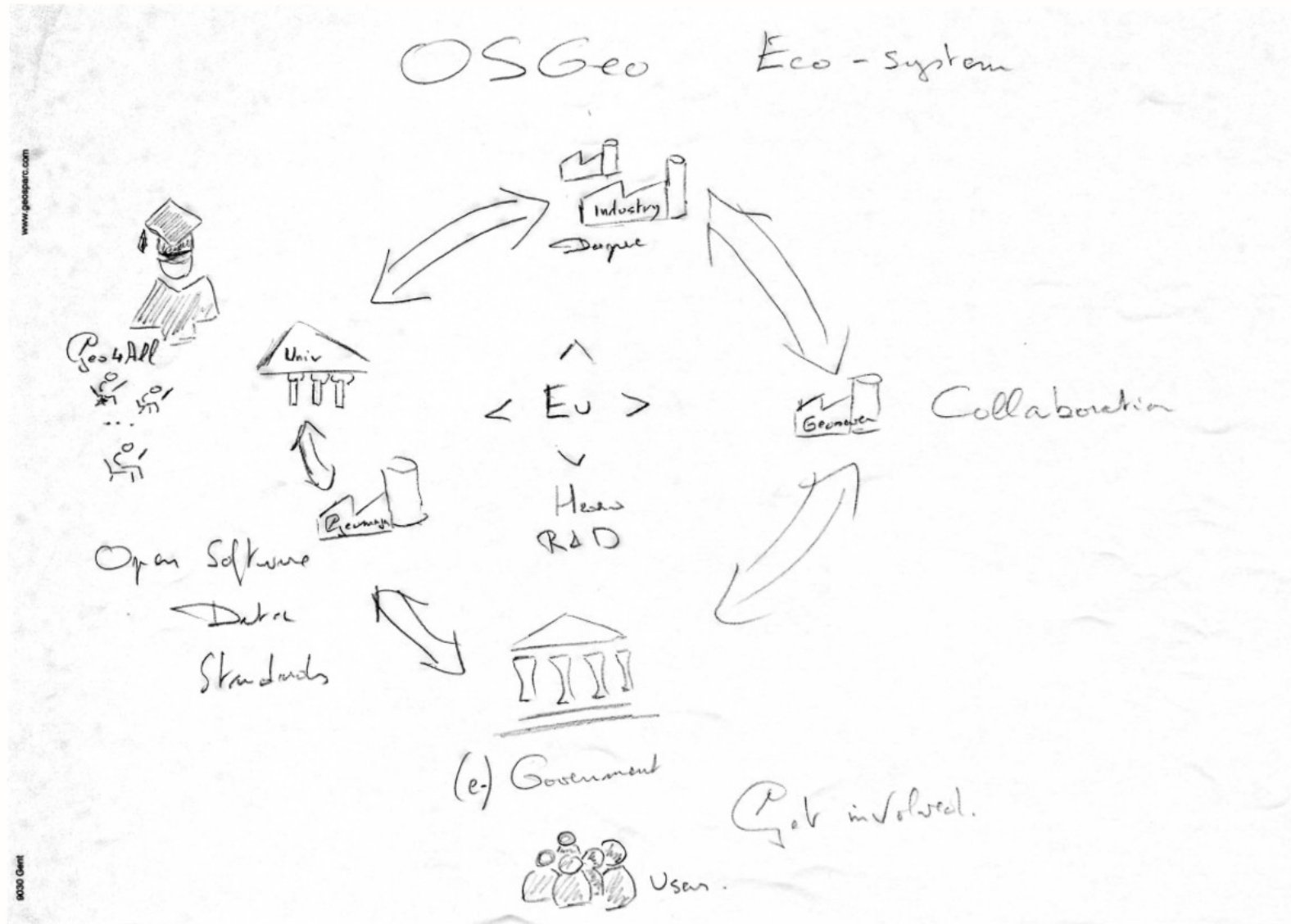


So,

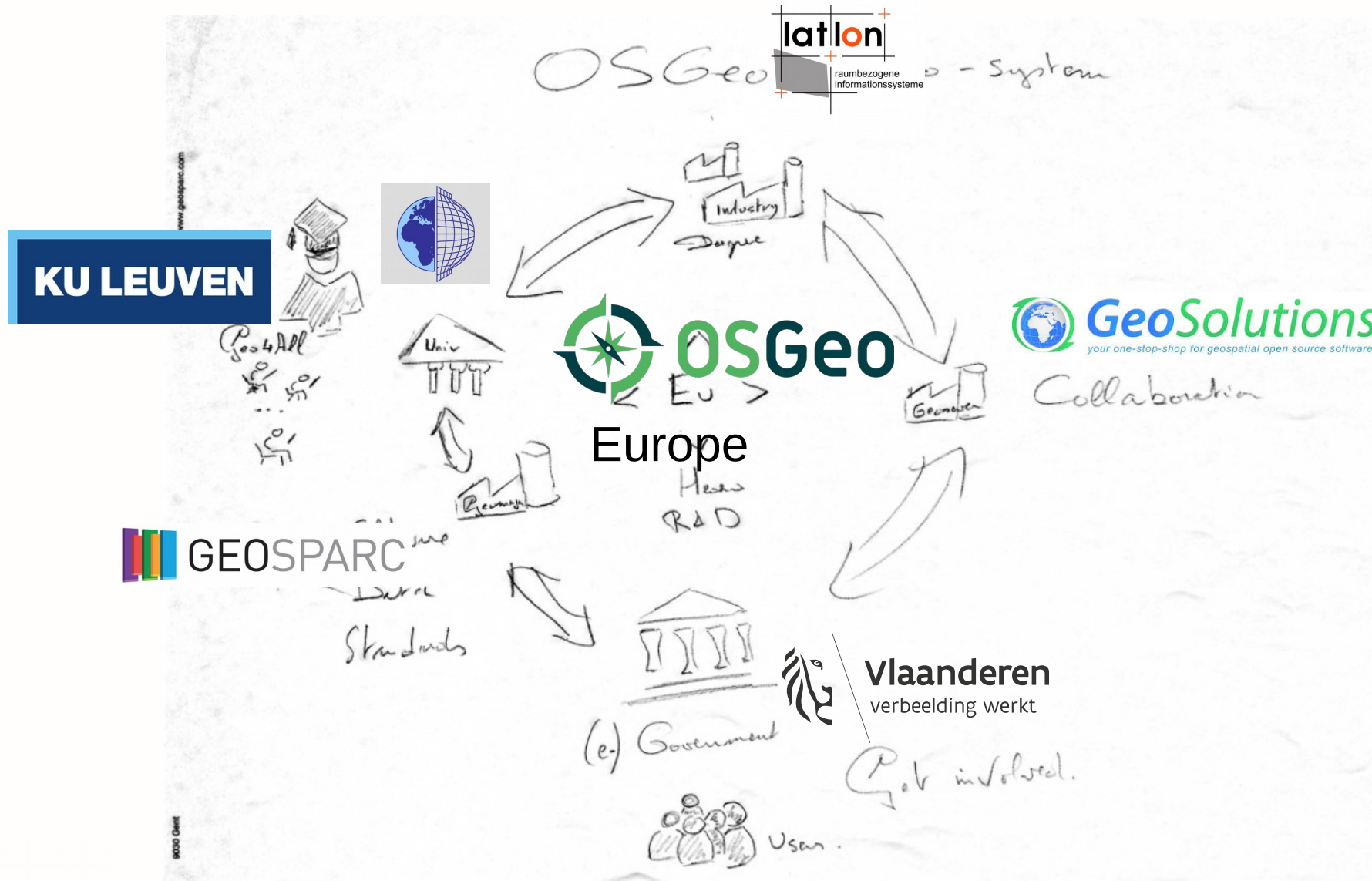
- Contribute and commit to the community
- Awareness is a first important step
- Software becomes more and more important
- We become more and more depended
- We should not preach only for the already converted
- But go out and evangelize



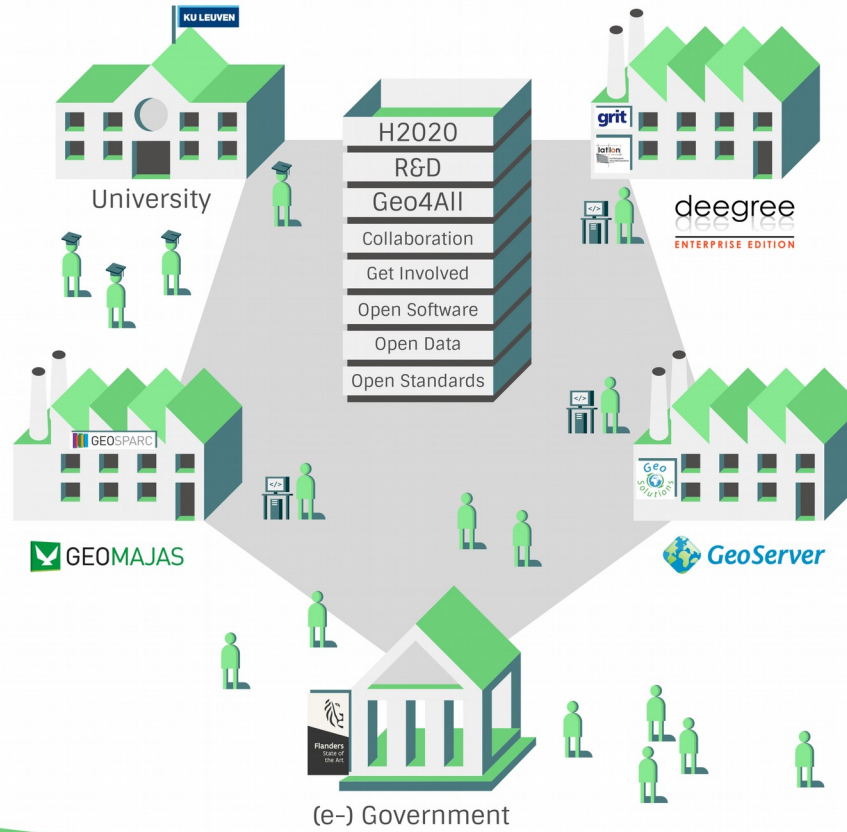
The OSGeo Eco system



The OSGeo Eco-system



Eco - System



Just one more thing ...



The future

The future is what **we** want!
OSGeo is a **doacracy**

In **Europe** we should become more organised

If **you** want this to happen,
You will have to **volunteer** to help



Thank you!
Welcome to open geospatial

